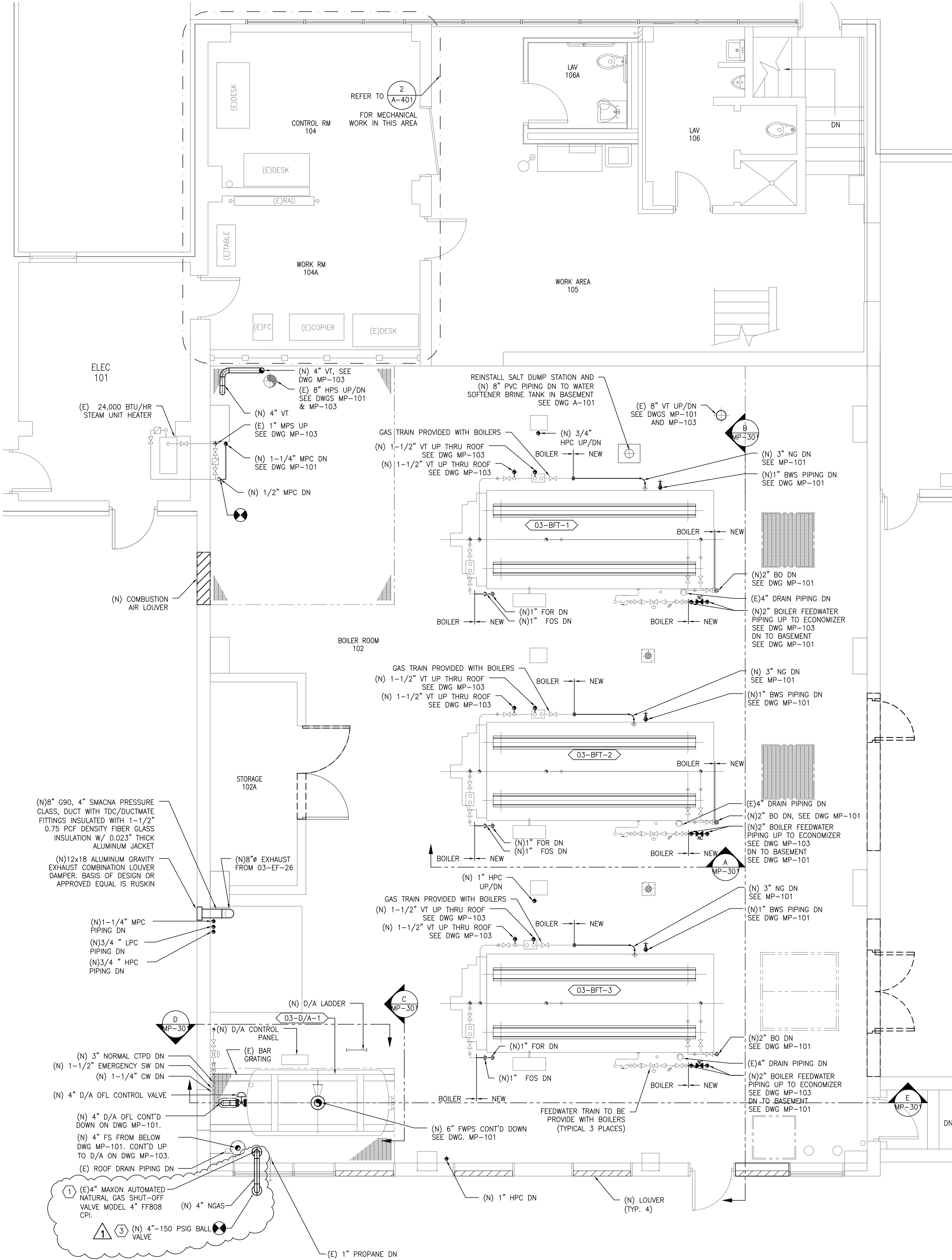


- GENERAL SHEET NOTES:**
- WORK THIS DRAWING WITH THE FOLLOWING FLOW DIAGRAMS:
MP-601 STEAM GENERATION SYSTEM MODIFICATIONS FLOW DIAGRAM
MP-602 STEAM GENERATION SYSTEM MODIFICATIONS FLOW DIAGRAM
MP-603 NATURAL GAS AND NO.2 FUEL OIL SYSTEM MODIFICATIONS FLOW DIAGRAM-DEMOLITION
MP-604 NATURAL GAS AND NO. 2 FUEL OIL SYSTEM MODIFICATIONS FLOW DIAGRAM-NEW WORK
MP-605 TEMPORARY STEAM BOILER SYSTEM
 - THE CONTRACTOR SHALL BASE THEIR CONSTRUCTION SCHEDULE AND WORK PLAN WITH THE PHASING PLAN SUMMARIZED IN THE PROJECT SPECIFICATIONS TO MINIMIZE DISRUPTIONS TO THE STEAM, CONDENSATE AND ELECTRICAL SYSTEMS. THE FACILITY HAS RESTRICTED THE SHUTDOWN PERIOD TO TWO (2) HOURS (MAXIMUM) DURATION. ALL SHUTDOWNS MUST BE SCHEDULED WITH THE FACILITY COR.
 - CONTRACTOR SHALL REMOVE AND REPLACE ALL STEAM TRAPS THROUGHOUT BUILDING NO. 3 THAT ARE NOT SHOWN AS PART OF THIS PROJECT. ALL STEAM TRAPS SHALL BE REPLACED "IN-KIND" (I.E. CAPACITY, SIZE, TYPE, STYLE ETC.) WITH TRAPS MANUFACTURED BY ARMSTRONG. ENSURE THAT ALL EXISTING TRAP MONITORING SYSTEMS ARE RE-CONNECTED AND IN PROPER WORKING ORDER.

- SHEET KEYNOTES:**
- CONTRACTOR SHALL RE-INSTALL (E) MAXON AUTOMATED NATURAL GAS SHUT-OFF VALVE MODEL 4" FF808 CP1 (ACTUATOR VOLTAGE 115V). SEE ELECTRICAL DRAWINGS FOR UPS REQUIREMENTS.
 - INSTALL THE FOLLOWING FLOWMETERS (PROVIDED BY BOILER MANUFACTURER) IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS:
2.1. (3)-HPS STEAM FROM BOILERS TO HEADER: ESTIMATED FLOW RANGE EACH 1,500 LB/HR. TO 13,800 LB/HR @ 80 TO 85 PSIG
2.2. (1)-HPS STEAM FROM BOILERS TO HOSPITAL: ESTIMATED FLOW RANGE EACH 1,500 LB/HR. TO 21,290 LB/HR @ 80 TO 85 PSIG
2.3. (1)-HPS STEAM FROM HEADER TO BOILER PLANT: ESTIMATED FLOW RANGE EACH 1,000 LB/HR. TO 6,500 LB/HR @ 80 TO 85 PSIG
2.4. (3)-NATURAL GAS TO 400 HP BOILERS: ESTIMATED FLOW RANGE EACH 1,633 CFH TO 16,328 CFH @ 15 PSIG
2.5. (3)-NO. 2 FUEL OIL TO 400 HP BOILERS: ESTIMATED FLOW RANGE EACH 240 GPM (4 GPM)
2.6. (3)-BOILER FEEDWATER FLOW METERS: ESTIMATED 3.75 TO 35 GPM
 - CONTRACTOR SHALL PROVIDE NEW 4"-150 PSIG BALL VALVE SUITABLE FOR NATURAL GAS SERVICE.



1 MECHANICAL PLAN - FIRST FLOOR - LOWER PLAN
1/4" = 1'-0"

NO.	DESCRIPTION	DATE
1	ADDENDUM #1 ADDED 4" BALL VALVE & 4" GAS PIPING	1-29-16

CONSULTANTS:

MILLER-REMICK CORPORATION
PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

Drawing Title
MECHANICAL (STEAM GENERATION) PIPING MODIFICATIONS - FIRST FLOOR LOWER PLAN

Approved: Project Director

Project Title
ALTOONA BOILER REPLACEMENT

Location
VA MEDICAL CENTER
ALTOONA, PA

Date
06-03-2014

Checked
JUM

Drawn
GQP

Project Number
503-13-120

Building Number
BLDG. 03

Drawing Number
MP-102
Dwg. 25 of 63

100% BID DOCUMENTS

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs